



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
March ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
)

For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**POWER OF ATTORNEY**

Applicants' Assignee hereby grants power of attorney to **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.** Customer Number 22,852, to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent. Please also send all future correspondence concerning this application to Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Customer Number 22,852

The undersigned is authorized to sign this Power of Attorney.

Respectfully submitted,

Dated: JUNE 5, 2006

By: Jack Spiegel  
Name: JACK SPIEGEL (REG # 34477)  
Title: SENIOR ADVISOR FOR TECHNOLOGY TRANSFER OPERATIONS  
Assignee: United States of America as  
represented by the Secretary of  
the Department of Health and  
Human Services

BEST AVAILABLE COPY



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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SUBMISSION UNDER 37 C.F.R. § 3.73(b)**

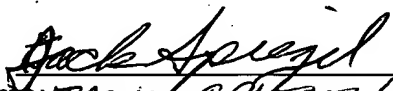
The United States of America as represented by the Secretary of the Department of Health and Human Services, having its principal place of business at 900 Rockville Pike, Bethesda, Maryland 20892, submits that it, together with Institut Pasteur of Paris, France, are the Assignees and owners of 100% of the right, title, and interest in the patent application identified above. The United States of America as represented by the Secretary of the Department of Health and Human Services' ownership interest is evidenced by:

Assignments from Robert C. Gallo, Mikulas Popovic, and Mangalasseril G. Sarngadharan, who are being added as inventors to the patent application identified above; copies of these Assignments are included in Exhibit A attached hereto.

The undersigned is authorized to act on behalf of the assignee, The United States of America as represented by the Secretary of the Department of Health and Human Services.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

By:   
Name: JACK SPIEGEL (REG# 34477)  
Title: SENIOR ADVISOR FOR TECHNOLOGY TRANSFER OPERATIONS  
Assignee: The United States of America  
as represented by the  
Secretary of the Department of  
Health and Human Services.

Dated: JUNE 5, 2006

## EXHIBIT A

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and


WHEREAS, The United States of America as represented by the Secretary of the Department of Health and Human Services, whose post office address is 900 Rockville Pike, Bethesda, Maryland 20892 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

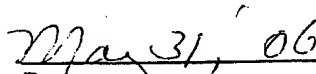
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
Robert C. Gallo

  
Date

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

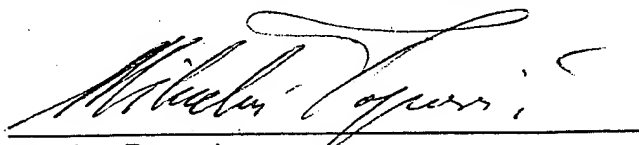
WHEREAS, The United States of America as represented by the Secretary of the Department of Health and Human Services, whose post office address is 900 Rockville Pike, Bethesda, Maryland 20892 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

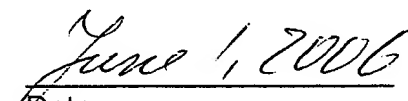
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
Mikulas Popovic

  
Date

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
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for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, The United States of America as represented by the Secretary of the Department of Health and Human Services, whose post office address is 900 Rockville Pike, Bethesda, Maryland 20892 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

Mangalasseril G. Sarngadharan  
Mangalasseril G. Sarngadharan

June 4, 2006  
Date



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
March ALIZON et al. ) Group Art Unit: 1637  
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ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SUBMISSION UNDER 37 C.F.R. § 3.73(b)**

Institut Pasteur, duly organized under the laws of France and having its principal place of business at 28, rue du Docteur Roux, 75724 Paris Cedex 15, France, submits that it, together with the United States of America as represented by the Secretary of the Department of Health and Human Services, are the Assignees and owners of 100% of the right, title, and interest in the patent application identified above. Institut Pasteur's ownership interest is evidenced by:

An Assignment from the inventors to Institut Pasteur and Centre Nationale de la Recherche Scientifique, jointly, which was recorded in the Patent and Trademark Office



at Reel 016769, Frame 0280, on July 14, 2005; copies of the recorded Assignment and the Notice of Recordation are attached hereto as Exhibit A; and

An Assignment from Centre Nationale de la Recherche Scientifique, having its principal place of business at 3, Rue Michel-Ange, 75794 Paris, Cedex 16, France, to Institut Pasteur, a copy of which is attached hereto as Exhibit B; and

Assignments from Solange Chamaret, Claudine Axler-Blin, Françoise Rey, Marie Therese Nugeyre, Jacqueline Gruet, Charles Dauguet, Willy Rozenbaum, Christine Rouzioux, Françoise Brun-Vezinet, Luc Montagnier, Jean-Claude Chermann, and Françoise Barre-Sinoussi, who are being added as inventors to the patent application identified above, to Institut Pasteur; copies of these Assignments are included in Exhibit C attached hereto.

The undersigned is authorized to act on behalf of the assignee, Institut Pasteur.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

*A. Dautry*

By: \_\_\_\_\_

Name: Alice Dautry

Title: President

Assignee: Institut Pasteur

*June 18<sup>th</sup>, 2006*

Dated: \_\_\_\_\_  
1110667



07-19-2005

U.S. Department of Commerce  
Patent and Trademark Office  
Atty. Docket No. 3495,0010-15  
Attorney Customer Number: 22,85

Mail Stop Assignment Recordation Services

To the Director of the U.S. Patent and  
Please record the attached original c



103042708

1. Name of conveying party(ies):

1. Marc ALIZON
2. Pierre SONIGO
3. Cole STEWART
4. Oliver DANOS
5. Simon WAIN-HOBSON

2. Name and address of receiving party(ies):

1. Institut Pasteur  
25-28, rue du Doctor Roux  
75724 Paris Cedex 15, France
2. Centre Nationale de la Recherche Scientifique  
15, Quai Anatole France  
75007 Paris, France

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other: [Describe]

Execution Date: February 7, 1986

Additional name(s) &amp; Address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application:

A. Patent Application Number(s):

1. Appin. No. 06/771,248 (08/30/1985)

B. Patent Number(s):

1. US No. 5,980,900 (11/09/1999)

Additional numbers attached?

☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Salvatore J. Arrigo, Reg. No. 48,063

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT &amp; DUNNER, L.L.P.

Street Address: 901 New York Avenue, N.W.

City: Washington, D.C.

State: Zip: 20001-4413

6. Total number of applications and registrations involved: 14

7. Total fee (37 CFR 1.21(h) and 3.41): \$560 (\$40 x 14)

- ☒ Enclosed (Please charge deficiency to deposit account 06-0916)
- ☐ Authorized to be charged to deposit account

8. Deposit Account No.: 06-0916

9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

07/18/2005 1:01PM 00000140 5980900

01 FC 3021

\$60.00 DP

Salvatore J. Arrigo

Signature

Date

Total number of pages including cover sheet, attachments and documents: 3

01/2005

PATENT  
REEL: 016769 FRAME: 0280

4. Application/Patent Numbers (Continued)

Patent Applications

2. Appln. No. 07/158,652 (02/22/1998)
3. Appln. No. 08/026,736 (03/04/1993)
4. Appln. No. 08/051,226 (04/23/1993)
5. Appln. No. 08/156,930 (11/24/1993)
6. Appln. No. 08/308,218 (09/19/1994)
7. Appln. No. 08/308,219 (09/19/1994)
8. Appln. No. 08/475,822 (06/07/1995)

Issued Patents

2. US No. 5,705,612 (01/06/1998)
3. US No. 6,894,152 (02/25/1994)
4. US No. 6,555,112 (04/29/2003)
5. US No. 6,261,564 (07/17/2001)
6. US No. 6,706,268 (03/16/2004)

**ASSIGNMENT**  
**FOR UNFILED APPLICATION FOR UNITED STATES PATENT**  
 (Sole or Joint Inventors)

ALL NAME(S) AND  
 OFFICE ADDRESS(S)  
 OF INVENTOR(S)  
 (including country)

**WHEREAS:**

- ALIZON Marc, 71, rue du Cardinal Lemoine 75005 PARIS (France)
- SONIGO Pierre 23, rue Gutenberg 75015 PARIS (France)
- STEWART Cole  
 4Bis Villa Denise 92320 CHATILLON (France)
- DANOS Oliver 1, Place Rollet 75015 PARIS (France)
- WAIN-HOBSON Simon 3, rue Jean de la Fontaine  
 78180 MONTIGNY LES BRETONNEUX (France)

FILE OF  
 MENTION

(hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled:  
**CLONED DNA SEQUENCES RELATED TO THE GENOMIC RNA OF  
 LYMPHADENOPATHY-ASSOCIATED VIRUS(LAV) AND... RNA**

for which application for Letters Patent of the United States has been executed on even date  
 XXXXXX  
 XXXXXX, August 30, 1985,

ALL NAME AND  
 ADDRESS (including  
 country) OF  
 SIGNEE

**INSTITUT PASTEUR**  
 25-28, rue du Dr. Roux  
**WHEREAS:** 75724 PARIS CEDEX 15 (France) and

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE**  
 15, Quai Anatole France  
 75007 PARIS (France)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING:  
 as must be the case  
 the date of signing  
 due performance and  
 out of the patent or  
 sign application.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 7-2-1986  
 (Date of Signing)

(SIGNATURES)  
 of signatories must  
 correspond with the  
 names of the  
 inventor(s) above.

*Alison Marc*

*Pierre SONIGO*

*Stewart Cole*

*Oliver Danos*

*Simon Wain-Hobson*

*Simon Wain-Hobson*

NOTE: No witnessing, notarization or legalization is necessary, but can be included if desired as a convenience.

RECORDED: 07/14/2005

PATENT  
 REEL: 016769 FRAME: 0282

**ASSIGNMENT**

WHEREAS, by virtue of an Assignment recorded in the United States Patent and Trademark Office on Reel 016769, Frames 0280-282, on July 14, 2005, Centre Nationale de la Recherche Scientifique (hereinafter referred to as ASSIGNOR), is the owner of rights, title, and interest in United States Patent Application Serial No. 08/475,822, filed June 7, 1995, (Attorney Docket No. 3495.0010-24), in the name of Marc Alizon, Pierre Sonigo, Cole Stewart, Oliver Danos, and Simon Wain-Hobson and entitled CLONED DNA SEQUENCES RELATED TO THE GENOMIC RNA OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND PROTEINS ENCODED BY SAID LAV GENOMIC RNA.

WHEREAS, Institut Pasteur (hereinafter referred to as ASSIGNEE), is desirous of acquiring from ASSIGNOR the ASSIGNOR's rights, title, and interest in, to and under the aforesaid patent application and the invention therein in the United States of America and its territories and possessions.

NOW THEREFORE, in consideration of good and valuable consideration, receipt of which from ASSIGNEE is acknowledged by ASSIGNOR, ASSIGNOR hereby sells, assigns, and transfers to the ASSIGNEE, its lawful successors and assigns, all of ASSIGNOR's rights to said invention in the United States, its territories and possessions, and all of ASSIGNOR's rights, title, and interest in and to said United States patent application Serial No. 08/475,822, filed June 7, 1995, and in and to any Letters Patent, which may be granted therefor in the United States, its territories and possessions, and in and to reissues, reexaminations, and extensions thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any and all of said Letters Patent, when granted, to said ASSIGNEE, its lawful successors and assigns as the assignee of the entire right, title, and interest in and to the same, for the sole use and enjoyment of said ASSIGNEE, its lawful successors and assigns.

Furthermore, ASSIGNOR agrees that it will communicate to said ASSIGNEE, or its representatives, any facts known to ASSIGNOR respecting said invention, and, at ASSIGNEE's expense, testify in any legal proceedings, sign all lawful papers, execute all reissue, reexamination and extension applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, its lawful successors and assigns, to obtain and enforce proper protection for said invention in the United States, its territories and possessions.

IN WITNESS WHEREOF, ASSIGNOR has hereunto set its hand this 31<sup>st</sup> day of May, 2006.

Centre Nationale de la Recherche  
Scientifique

By: \_\_\_\_\_

Title: \_\_\_\_\_

**Marc J. LEDOUX**

*change de  
nom*

WITNESS:

*[Signature]*  
Responsable du Pilotage  
de la Valorisation

TITLE: \_\_\_\_\_

**Frédéric FOUBERT**



JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
\_\_\_\_\_  
Solange Chamaret

22-05-06  
Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

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NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

C. Axler-Blin  
Claudine Axler-Blin

26 Mai 2006  
Date



JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
\_\_\_\_\_  
Françoise Rey

  
\_\_\_\_\_  
Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
\_\_\_\_\_  
Marie-Therese Nugeyre

May 23 2006  
\_\_\_\_\_  
Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS, JACQUELINE GRUEST, [hereinafter referred to as Assignor], made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
Jacqueline Gruest

By: Jacques Gruest, Heir to the Estate of  
Jacqueline Gruest, Deceased

25.05.2006  
Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
\_\_\_\_\_  
Charles Dauguet

26 Mai 2006.  
\_\_\_\_\_  
Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

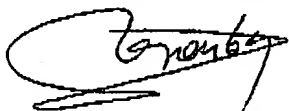
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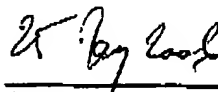
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IN TESTIMONY WHEREOF, I have hereunto set my hand.



Willy Rozenbaum



Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLOINED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

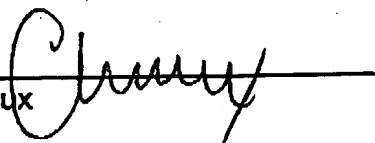
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IN TESTIMONY WHEREOF, I have hereunto set my hand.

Christine Rouzioux



Date

30 05 2006

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named Inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

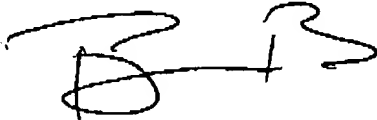
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IN TESTIMONY WHEREOF, I have hereunto set my hand.

FRANÇOISE BRUN-VEZINE



Date

30/05/06

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
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IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
Luc Montagnier

  
Date



JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

Jean-Claude Chermann  
Jean-Claude Chermann

May 26<sup>th</sup> 06  
Date

JOINT INVENTION  
Attorney Docket No. 03495.0010-24

### ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**CLONED DNA SEQUENCE RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID LAV GENOMIC RNA**

for which an application for United States Letters Patent was filed on June 7, 1995 (Application No. 08/475,822); and

WHEREAS, Institut Pasteur, whose post office address is 28, rue du Docteur Roux, 75724 Paris Cedex 15, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in the United States, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

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IN TESTIMONY WHEREOF, I have hereunto set my hand.

  
\_\_\_\_\_  
Françoise Barre-Sinoussi

05.24.2006  
\_\_\_\_\_  
Date

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